Appendix table 4-45 Government budget appropriations or outlays for R&D, by socioeconomic objectives, selected countries: 2009

Socioeconomic objective	United States	Germany	France ^b	United Kingdom	Japan	China	South Korea			
	Current U.S. PPP \$millions									
All objectives	164,292	25,858	16,172	15,146	31,073	NA	13,210			
Defense	84,771	1,466	4,578	2,766	1,149	_	2,200			
Nondefense	79,522	24,392	11,594	12,380	29,923	NA	11,010			
Exploration and exploitation of Earth	1,677	477	146	407	587	_	292			
Environment	565	791	438	404	305	_	606			
Exploration and exploitation of space	9,060	1,317	1,451	283	2,238	_	403			
Transport, telecommunication, and other infrastructures	1,536	457	156	199	1,265	_	271			
Energy	3,794	1,082	964	157	4,091	_	984			
Industrial production and technology	963	3,285	1,389	369	2,603	_	3,497			
Health	43,927	1,244	1,154	2,749	1,255	_	1,152			
Agriculture	2,629	787	303	427	1,177	_	979			
Education	464	240	na	99	74	_	NA			
Culture, recreation, religion, and mass media	25	277	na	290	109	_	NA			
Political and social systems, structures, and processes	754	495	417	313	111	_	NA			
General advancement of knowledge: R&D financed from GUF ^a	na	9,669	4,517	3,730	10,622	_	**			
General advancement of knowledge: R&D financed from sources other than GUF	14,128	4,429	741	2,953	5,486	_	2,513			
	Percent									
Share of all objectives	100.0	100.0	100.0	100.0	100.0	NA	100.0			
Defense	51.6	5.7	28.3	18.3	3.7	_	16.7			
Nondefense	48.4	94.3	71.7	81.7	96.3	_	83.3			
Share of nondefense objectives	99.9	100.6	100.8	100.0	100.0	NA	97.3			
Exploration and exploitation of Earth	2.1	2.0	1.3	3.3	2.0	_	2.7			
Environment	0.7	3.2	3.8	3.3	1.0	_	5.5			
Exploration and exploitation of space	11.4	5.4	12.5	2.3	7.5	_	3.7			
Transport, telecommunication, and other infrastructures	1.9	1.9	1.3	1.6	4.2	_	2.5			
Energy	4.8	4.4	8.3	1.3	13.7	_	8.9			
Industrial production and technology	1.2	13.5	12.0	3.0	8.7	_	31.8			
Health	55.2	5.1	10.0	22.2	4.2	_	10.5			
Agriculture	3.3	3.2	2.6	3.4	3.9	_	8.9			
Education	0.6	1.0	na	0.8	0.2	-	NA			
Culture, recreation, religion, and mass media	0.0	1.1	na	2.3	0.4	_	NA			

Appendix table 4-45
Government budget appropriations or outlays for R&D, by socioeconomic objectives, selected countries: 2009

Socioeconomic objective	United States	Germany	France ^b	United Kingdom	Japan	China	South Korea
Political and social systems, structures, and processes	0.9	2.0	3.6	2.5	0.4	-	NA
General advancement of knowledge: R&D financed from GUF ^a	na	39.6	39.0	30.1	35.5	-	**
General advancement of knowledge: R&D financed from sources other than GUF	17.8	18.2	6.4	23.9	18.3	_	22.8

^{** =} included in other categories; na = not applicable; NA = not available

GUF = general university funds; PPP = purchasing power parity

NOTES: United States data are based on federal budget authority. Socioeconomic objective categories reflect the new NABS 2007 classifications (Nomenclature for the Analysis and Comparison of Scientific Programs and Budgets). Conversions of foreign currencies to U.S. dollars are based on purchasing power parity exchange rates. Because of GUF and slight differences in accounting practices, distribution of government budgets among socioeconomic objectives may not completely reflect actual distribution of government-funded research in particular objectives. Detail may not add to total because of rounding.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, Federal R&D Budget Authority by Spending Category, FY 2009–11; Organization for Economic Co-operation and Development, special tabulations (2011).

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^aUnited States and South Korea do not have a category equivalent to general university funds (GUF).

^bData for France are for 2008, the most recent year available.